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<u>L20</u>	714/1,25,38,48,715,727,819.ccls.	3189	<u>L20</u>
<u>L19</u>	l17 and l14	21	<u>L19</u>
<u>L18</u>	L17 and l15	126	<u>L18</u>
<u>L17</u>	714/1,25,38,48,715.ccls.	2568	<u>L17</u>
<u>L16</u>	L15 and l14	5	<u>L16</u>
<u>L15</u>	717/124,126.ccls.	409	<u>L15</u>
<u>L14</u>	L13 and (map\$ or match) near5 expected\$	194	<u>L14</u>
<u>L13</u>	L12 and (compar\$ and (match\$ or map\$))	1556	<u>L13</u>
<u>L12</u>	(software or code\$ or modul\$) near8 (test\$ or verif\$) and (test\$ near4 (case\$ or scenario\$)) and result\$ and expected\$	2448	<u>L12</u>
<u>L11</u>	L10 and compar\$ and map\$ and expecte\$ and result\$	9	<u>L11</u>
<u>L10</u>	(test\$ or verif\$) near9 (software\$ near4 layer\$)	55	<u>L10</u>

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L9 (software\$ or module\$ Or block\$ or layer\$) near9 test\$ and matrix and
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automatic\$ and (matrix\$ near9 mathematic\$) 0 L9

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L4 L3 and automatic\$ and (matrix\$ near9 mathematic\$) 10 L4

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L2 (software near4 layer\$) near9 test\$ and matrix and compar\$ and (match\$ or
map\$) and expected\$ near4 (test\$ or result\$) 1 L2

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [A software engineering perspective on algorithmics](#)

Karsten Weihe

March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1Full text available: [pdf\(1.62 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

An algorithm component is an implementation of an algorithm which is not intended to be a stand-alone module, but to perform a specific task within a large software package or even within several distinct software packages. Therefore, the design of algorithm components must also incorporate software-engineering aspects. A key design goal is adaptability. This goal is important for maintenance throughout a project, prototypical development, and reuse in new, unforeseen context ...

Keywords: algorithm engineering

3 [Proceedings of the SIGNUM conference on the programming environment for development of numerical software](#)

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1Full text available: [pdf\(5.02 MB\)](#)Additional Information: [full citation](#)

4 [Software reuse](#)


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 March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

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- 2 [A Survey of Interactive Graphical Systems for Mathematics](#)

Lyle B. Smith

 December 1970 **ACM Computing Surveys (CSUR)**, Volume 2 Issue 4

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- 3 [Algorithm 777: HOMPAC90: a suite of Fortran 90 codes for globally convergent homotopy algorithms](#)

 Layne T. Watson, Maria Sosonkina, Robert C. Melville, Alexander P. Morgan, Homer F. Walker
December 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 4

 Full text available: [pdf\(254.59 KB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: Chow-Yorke algorithm, curve tracking, fixed point

- 4 [Software reuse](#)

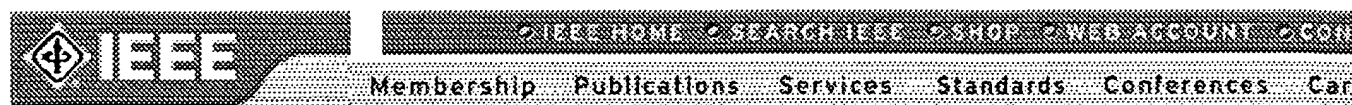
Charles W. Krueger

 June 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 2

 Full text available: [pdf\(4.96 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Software reuse is the process of creating software systems from existing software rather than building software systems from scratch. This simple yet powerful vision was introduced in 1968. Software reuse has, however, failed to become a standard software engineering practice. In an attempt to understand why, researchers have renewed their interest in software reuse and in the obstacles to implementing it. This paper surveys the different

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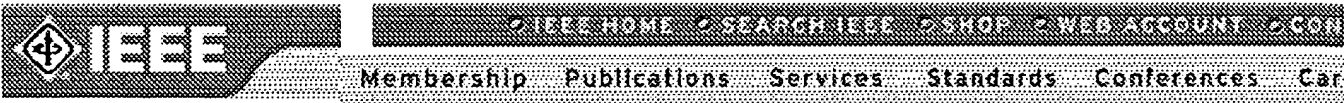
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<u>L17</u>	l15 and (layer\$ or block\$ or code\$ or module\$) ner9 relat\$	0	<u>L17</u>
<u>L16</u>	L15 and (matrix\$ or math\$) near9 (code\$ or layer\$ or software\$ or block\$)	1	<u>L16</u>
<u>L15</u>	6671874.pn.	1	<u>L15</u>
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<u>L13</u>	l1 and mathematic\$	0	<u>L13</u>
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<u>L8</u>	l1 and (multi\$ Or plural\$ or many\$)	1	<u>L8</u>
<u>L7</u>	l1 and matrix\$ near9 (software\$ or code\$ or program\$ or layer\$)	1	<u>L7</u>
<u>L6</u>	l1 and matrix\$ near8 (software\$ or code\$ or layer\$)	1	<u>L6</u>
<u>L5</u>	l1 and (match\$ or map\$) and expect\$	1	<u>L5</u>
<u>L4</u>	l1 and (compar\$ near5 test\$)	1	<u>L4</u>
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<u>L30</u>	717/124/126.ccls.	0	<u>L30</u>
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<u>L29</u>	matrix\$ near5 (layer\$ or modul\$ or software\$ or code\$) near9 (plural\$ or mult\$) and (matrix\$ near4 math\$) and (test\$ near8 matrix\$)	0	<u>L29</u>
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<u>L28</u>	matrix\$ near5 (layer\$ or modul\$ or software\$ or code\$) near9 (plural\$ or mult\$) and (matrix\$ near4 math\$) and (test\$ near8 matrix\$)	0	<u>L28</u>
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<u>L27</u>	matrix\$ near5 (layer\$ or modul\$ or software\$ or code\$) near9 (plural\$ or mult\$) and (matrix\$ near4 math\$) and (test\$ near8 matrix\$)	0	<u>L27</u>

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181 [Statistical geometry representation for efficient transmission and rendering](#)



Aravind Kalaiah, Amitabh Varshney

April 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 2Full text available: [pdf \(16.46 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional geometry representations have focused on representing the details of the geometry in a deterministic fashion. In this article we propose a statistical representation of the geometry that leverages local coherence for very large datasets. We show how the statistical analysis of a densely sampled point model can be used to improve the geometry bandwidth bottleneck, both on the system bus and over the network as well as for randomized rendering, without sacrificing visual realism. Our s ...

Keywords: Point-based rendering, network graphics, principal component analysis, programmable GPU, progressive transmission, quasi-random numbers, view-dependent rendering

182 [Bayesian inference for transductive learning of kernel matrix using the Tanner-Wong data augmentation algorithm](#)



Zhihua Zhang, Dit-Yan Yeung, James T. Kwok

July 2004 **Twenty-first international conference on Machine learning**Full text available: [pdf \(175.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In kernel methods, an interesting recent development seeks to learn a good kernel from empirical data automatically. In this paper, by regarding the transductive learning of the kernel matrix as a missing data problem, we propose a Bayesian hierarchical model for the problem and devise the Tanner-Wong data augmentation algorithm for making inference on the model. The Tanner-Wong algorithm is closely related to Gibbs sampling, and it also bears a strong resemblance to the expectation-maximization ...

183 [Technical papers: Aiding knowledge capture by searching for extensions of knowledge models](#)



David B. Leake, Ana Maguitman, Thomas Reichherzer, Alberto J. Cañas, Marco Carvalho, Marco Arguedas, Sofia Brenes, Tom Eskridge

October 2003 **Proceedings of the international conference on Knowledge capture**Full text available: [pdf \(458.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)